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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/016,624 12/10/20		12/10/2001	David G. Wang	9926 (NCRC-0057-US)	4094		
26890	7590	05/17/2004		EXAM	EXAMINER		
JAMES M.	STOVE	R	PATEL, NIHIR B				
NCR CORP	ORATION	1					
1700 SOUTH PATTERSON BLVD, WHQ4				ART UNIT	PAPER NUMBER		
DAYTON, OH 45479				3743			

DATE MAILED: 05/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	110000000000000000000000000000000000000	Application No.	Applicant(s)					
		10/016,624	WANG ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Nihir Patel	3743					
Period fo	The MAILING DATE of this communi or Reply	ication appears on the cover sheet	with the correspondence add	iress				
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNI Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may unication.)) days, a reply within the statutory minimum of t tutory period will apply and will expire SIX (6) Me will, by statute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this cor ABANDONED (35 U.S.C. § 133).	nmunication.				
Status								
1)⊠	Responsive to communication(s) file	d on <u><i>March 8th, 2004</i></u> .						
2a)⊠	This action is FINAL .	2b) This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
·	Claim(s) <u>1-43</u> is/are pending in the a 4a) Of the above claim(s) <u>6-10, 16, 2</u> Claim(s) <u>40</u> is/are allowed. Claim(s) <u>1-5,11-15,17-19,21 and 24</u> Claim(s) <u>41 and 42</u> is/are objected to Claim(s) are subject to restrict	<u>70, 22, 23, 27-39, <i>and 43</i></u> is/are wit - <u>-26</u> is/are rejected. o.	hdrawn from consideration.					
Applicat	ion Papers							
9)[The specification is objected to by the	e Examiner.						
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any object							
11)	Replacement drawing sheet(s) including The oath or declaration is objected to							
Priority (under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmer	nt(s)							
	ce of References Cited (PTO-892)		w Summary (PTO-413) Io(s)/Mail Date					
3) Infor	ce of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date		of Informal Patent Application (PTO	-152)				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed on March 8th, 2004 have been fully considered but they are not persuasive. The applicant argued that that figure 2 depicts a general system level view of a system that includes heat sinks according to some embodiments. The remaining figures of the application depicts the heat sinks that are usable in the system of figure 2. The applicant also argued that figures 3 and 4 also do not depict different species of the invention but rather show different parts of a heat sink according to an embodiment. The examiner disagrees. The examiner believes that figure 2 is the first embodiment since it comprises a heat sink 108 that can be remotely located. Figure 3 being the second embodiment since it comprises heat pipes 110 which are contacted to a heat producing device and figures 4, 5, and 6 being the third embodiment since it comprises airflow channels 122, 124, and 126 that are extending through the heat sink block. Therefore the requirement is still deemed proper and is therefore made FINAL.

Claims 6-10, 16, 20, 22, 23, 27-39, and 43 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim.

In reference to claims 1 and 24, the applicant argues that the heat pipe 110 is actually not connected in any way to the header disk assembly 130, rather the heat pipe 110 is connected to a thin conduction plate 104. The examiner disagrees. Referring to column 4 lines 24-35 the reference states that the thin plats 104 are adhered to the head disk assembly 130 that makes it a part of the head disk assembly. Since the thin plates 104 are a part of the head disk assembly, Hillman does teach extending an elongated heat conduit through a substantial portion of a block.

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In reference to claim 31, claim 31 has been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a non-elected species.

In response to applicant's argument regarding claim 11 that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the applicant claims that the block has airflow channels to provide surfaces on the block exposed to airflow in which Suzuki '213 does (see figures 15a, 15b, and 15c).

In conclusion claims 1-5, 11-15, 17-19, 21, and 24-26 are rejected under the previous office action dating back to December 2nd, 2003 still applies.

Allowable Subject Matter

2. Claim 40 is allowed.

Claims 41 and 42 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Nihir Patel whose telephone number is (703) 306-3463. The examiner can normally be reached on Monday-Friday from 7:30 am to 4:30 pm. If attempts to reach the examiner by telephone are unsuccessful the examiner supervisor Henry Bennett can be reached at (703) 308-0101.

NP

May 5th, 2003

Vienry Bernnett Supervisory Paper Examiner

Group 3700